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NPIC/R-1486/63
September 1963

PHOTOGRAPHIC INTERPRETATION REPORT

MISSION COVERAGE INDEX

MISSION 169
23 AUGUST 1963

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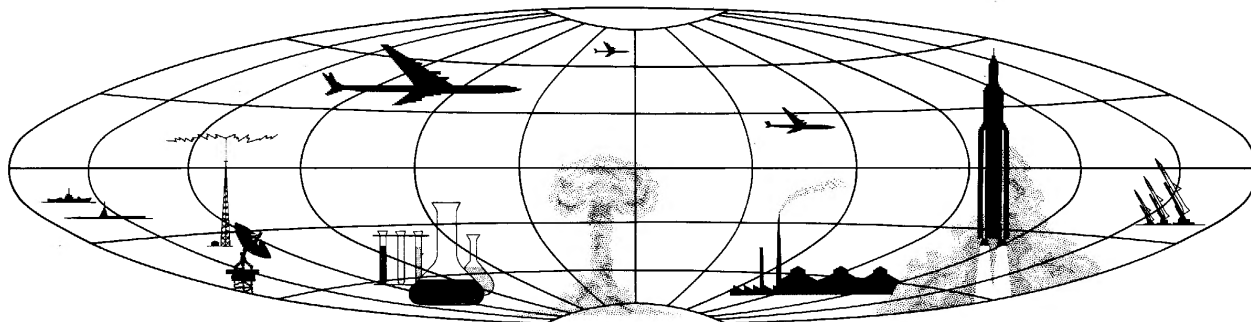


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GROUP 1
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W A R N I N G

This document contains information affecting the national defense of the United States, within the meaning of Title 18, sections 793 and 794, of the U.S. Code, as amended. Its transmission or revelation of its contents to or receipt by an unauthorized person is prohibited by law.

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PREFACE

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[REDACTED] A target description, based on photographic interpretation, is included for each target covered by the mission, except for those in which no significant change was observed.

[REDACTED] provided photographic coverage only in China. Targets are arranged 1) by subject, 2) within the subject by WAC area, and 3) within the WAC area by coordinates, reading from south to north and from west to east. Column headings, photo reference data, and symbols indicating conditions which affect the appearance of the target on the photography are explained in the appendix. For the convenience of the recipient, a subject index has been included, listing targets by subject and within the subject category, alphabetically by place name.

The recipient of this MCI is cautioned that the scan of photography from Mission [REDACTED] 169 was accomplished in a relatively short time and often without the aid of precise analytical and mensural equipment commonly employed in detailed photographic analysis. Consequently, although the information presented herein is essentially accurate, it may be altered somewhat by additional detailed analysis.

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City, Installation	Coordinates	WAC	Installation Numbers	
			BE	NPIC
<p>-CHINA-</p> <p><u>MISSILES</u></p> <p>LU-SHUN CRUISE MISSILE LAUNCH SITE 9 NM WNW OF LU-SHUN ON HILLTOP OVERLOOKING COAST. UNOCCUPIED, APPARENTLY INACTIVE CRUISE MISSILE LAUNCH SITE CONTAINS 2 REVETTED LAUNCH POSITIONS AND 2 BUNKERED CONTROL AREAS. TWO LOOP ROADS SERVE LAUNCH SITE AND EXTEND NORTH TO SUPPORT AREA CONTAINING 7 BARRACKS-TYPE BUILDINGS.</p> <p>[REDACTED]</p>	3849N 12127E	0381	25X1	18-D
			[REDACTED]	
<p><u>AIR INSTALLATIONS</u></p> <p>HAILAR AIRFIELD SOUTHWEST 3.5 NM SW OF HAI-LA-ERH. 6,200 X 200 FT NW/SE CONCRETE RUNWAY, SERVICEABLE. FACILITIES INCLUDE TAXIWAY WITH CONCRETE PARKING RAMP AND 4 CROSSOVER LINKS NE OF RUNWAY AND THE FOLLOWING UNDER CONSTRUCTION AT NE END OF RUNWAY -- CONTROL TOWER/ADMINISTRATIVE BUILDING, 2 LARGE HANGARS NEARING COMPLETION, TAXIWAY TO HANGAR AREA, 13 SUPPORT BUILDINGS, AND FIRING BUTT NEARING COMPLETION. FIFTEEN PROBABLE TENTS AND MISCELLANEOUS TEMPORARY BUILDINGS OBSERVED NE OF AIRFIELD. A RAIL SPUR TERMINATES AT WEST END OF RUNWAY. AIRCRAFT -- NONE OBSERVED.</p> <p>[REDACTED]</p>	4909N 11941E	0202	25X1	55-C
			[REDACTED]	
			25X1	

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<p>HAILAR AIRFIELD EAST 2.8 NM ESE OF HAI-LA-ERH. APPROXIMATELY 4,500 X 290 FT ENE/WSW SOD RUNWAY, APPARENTLY SERVICEABLE, WITH 560 FT OVERRUN AT ENE END AND 1,350 FT OVERRUN AT WSW END, AND APPROXIMATELY 3,000 X 430 FT N/S SOD RUNWAY, APPARENTLY SERVICEABLE, WITH 780 FT OVERRUN AT NORTH END. FACILITIES, NORTH OF RUNWAY INTERSECTION, INCLUDE PROBABLE CONTROL BUILDING, METEOROLOGICAL STATION, HANGAR, 2 SERVICING HARDSTANDS, AND SEVERAL SMALL SUPPORT BUILDINGS. AIRCRAFT -- NONE OBSERVED.</p>	4912N 11948E	0202	25X1	55-E
<p>NEN-CHIANG AIRFIELD NORTH IDENTIFICATION ONLY.</p>	4914N 12521E	0203		81
<p>CHEN-TUNG AIRFIELD 2.2 NM NW OF CHEN-TUNG. 3,950 X 300 FT NNE/SSW SOD RUNWAY, UNSERVICEABLE AND APPARENTLY ABANDONED. AIRCRAFT -- NONE OBSERVED.</p>	4552N 12310E	0283		27
<p>LA-LIN AIRFIELD AIRFIELD SITE APPROXIMATELY 60 PER CENT CLOUD COVERED. ON VISIBLE PORTION OF AIRFIELD, CONSTRUCTION APPEARS COMPLETED. HEAVY CLOUDS PRECLUDE OBSERVATION OF FACILITIES.</p>	4514N 12653E	0283		47-A

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City, Installation	Coordinates	WAC	Installation Numbers	
			BE	NPIC
AIRCRAFT -- NONE OBSERVED. [REDACTED]			25X1	
YU-SHU-TUN AIRFIELD 6 NM EAST OF ANG-ANG-CHI. 4,400 X 225 FT NW/SE HARD SURFACE RUNWAY WITH CONCRETE ENDS, AND 2,200 X 115 FT ENE/WSW CONCRETE RUNWAY. AIRFIELD APPEARS ABANDONED BUT PROBABLY SERVICEABLE. FACILITIES INCLUDE APPROXIMATELY 37 EARTHEN AIRCRAFT REVETMENTS. AIRCRAFT -- NONE OBSERVED. [REDACTED]	4709N 12355E	0283	[REDACTED]	75
YA-MEN-TUN AIRFIELD 1.6 NM WEST OF YA-MEN-TUN AND 6.3 NM SSW OF CHI-CHI-HA-ERH. 7,200 X 200 FT NNW/SSE CONCRETE RUNWAY, SERVICEABLE. FACILITIES INCLUDE OLD NNW/SSE AND WNW/ESE RUNWAYS IN USE AS PARKING APRONS, LOOP TAXIWAY EAST OF RUNWAY WITH 4 CROSSOVER LINKS AND 2 PARKING APRONS, HANGAR, SECURED AREA WITH 10 BUNKERED BUILDINGS AND 5 POSSIBLE BUNKERED BUILDINGS .5 NM ESE OF CENTER OF RUNWAY, AND ANOTHER SECURED STORAGE AREA WITH 3 STORAGE BUILDINGS ONE NM ENE OF CENTER OF RUNWAY. AIRCRAFT -- NONE OBSERVED. [REDACTED]	4714N 12355E	0283	[REDACTED]	72
LUNG-CHIANG AIRFIELD SOUTH ONE NM SSW OF CHI-CHI-HA-ERH. 5,000 X 330 FT WNW/ESE ASPHALT/CONCRETE RUNWAY, APPARENTLY SERVICEABLE, AND 4,950 X	4718N 12356E	0283	[REDACTED]	28-B

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City, Installation	Coordinates	WAC	Installation Numbers	
			BE	NPIC
<p>500 FT NNW/SSE ASPHALT/CONCRETE RUNWAY, APPARENTLY SERVICEABLE. FACILITIES INCLUDE 4 HANGARS, LOOP TAXIWAY AROUND WEST AND NORTH SIDES OF AIRFIELD, AND PARKING APRON ON NORTH SIDE OF AIRFIELD. AIRCRAFT -- NONE OBSERVED.</p> <p>[REDACTED]</p>			25X1	
<p>TAO-NAN AIRFIELD 3.5 NM SSE OF TAO-NAN. APPROXIMATELY 4,500 X 300 FT N/S LATERITE RUNWAY WITH ONLY APPROXIMATELY 2,000 FT OF SOUTHERN END SERVICEABLE. FACILITIES INCLUDE LOOP TAXIWAY WEST OF RUNWAY. AIRCRAFT -- ONE SINGLE-ENGINE PROBABLE LIAISON-TYPE.</p> <p>[REDACTED]</p>	4517N 12249E	0284	[REDACTED]	6
<p>TAO-AN AREA, AIRFIELD 21.5 NM NW OF TAO-AN. FORMER AIRFIELD SITE UNDER CULTIVATION. HOWEVER, AT LEAST 40 AIRCRAFT REVETMENTS REMAIN. RAZED SUPPORT AREA OBSERVED IMMEDIATELY NORTH OF FORMER AIRFIELD SITE. SMALL PROBABLE BARRACKS AREA OBSERVED IMMEDIATELY WEST OF FORMER SUPPORT AREA SITE CONTAINS 6 BARRACKS-TYPE AND APPROXIMATELY 20 OTHER BUILDINGS.</p> <p>[REDACTED]</p>	4552N 12229E	0284		5-F
<p>KENG-CHUANG-TZU AIRFIELD 4.5 NM ENE OF KENG-CHUANG-TZU. AIRFIELD APPARENTLY ABANDONED WITH TRACKAGE</p> <p>[REDACTED]</p>	4102N 12247E	0289	25X1	16

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City, Installation	Coordinates	WAC	Installation Numbers	
			BE	NPIC
OBSERVED ACROSS RUNWAY IN SEVERAL PLACES. AIRCRAFT -- NONE OBSERVED. [REDACTED]			25X1	
TENG-AO-PAO AIRFIELD 1.7 NM NE OF TENG-AO-PAO. AIRFIELD SITE 60 PER CENT CLOUD COVERED. NO APPARENT CHANGE IN FACILITIES SINCE [REDACTED] [REDACTED] OBSERVED IN CLOUD-FREE AREAS. AIRCRAFT -- 8 FARMER AND 2 FAGOT/FRESCO OBSERVED IN CLOUD-FREE AREAS. [REDACTED]	4106N 12251E	0289	[REDACTED]	27
TA-PAO AIRFIELD .5 NM SW OF TA-PAO. APPROXIMATELY 5,500 X 200 FT NE/SW CONCRETE RUNWAY, SERVICEABLE. AIRCRAFT -- 27 FAGOT/FRESCO. [REDACTED]	4032N 12413E	0290	[REDACTED]	59
KUAN-TIEN AIRFIELD WEST 10 NM WSW OF KUAN-TIEN. NO APPARENT CHANGE IN FACILITIES SINCE [REDACTED] AIRCRAFT -- NONE OBSERVED. [REDACTED]	4042N 12436E	0290	[REDACTED]	42
LIAO-YANG AIRFIELD WEST 5 NM WEST OF LIAO-YANG. NO APPARENT CHANGE IN FACILITIES SINCE [REDACTED] [REDACTED] AIRCRAFT -- 14 FARMER AND 23 FAGOT/FRESCO. [REDACTED]	4116N 12305E	0290	[REDACTED]	46-B
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City, Installation	Coordinates	WAC	Installation Numbers	
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MUKDEN AIRFIELD SW SW SECTION OF SHEN-YANG (MUKDEN). APPROXIMATELY 3,900 X 140 FT NNE/SSW CONCRETE RUNWAY, SERVICEABLE (MEASURED ONLY ON FULL WIDTH PORTION OF RUNWAY). AIRCRAFT -- NONE OBSERVED.	4146N 12322E	0290	25X1	55-E
MUKDEN AIRFIELD SE SE SECTION OF SHEN YANG (MUKDEN). 6,600 X 240 FT NE/SW CONCRETE RUNWAY, SERVICEABLE. FACILITIES INCLUDE RAIL SERVED POL STORAGE AREA WITH 6 BUNKERS SE OF RUNWAY. AIRCRAFT -- 10 COLT (ONE IN FLIGHT, 2 CAB, AND ONE FAGOT/FRESCO.	4147N 12330E	0290		55-D
MUKDEN AIRFIELD WEST 5.5 NM WEST OF SHEN-YANG (MUKDEN). HEAVY CLOUDS PRECLUDE INTERPRETATION OF RUNWAY OR FACILITIES. AIRCRAFT -- 6 FAGOT/FRESCO OBSERVED IN CLOUD-FREE AREAS.	4149N 12318E	0290		55-F
MUKDEN AIRFIELD NORTH 2 NM NORTH OF SHEN-YANG (MUKDEN). NO APPARENT CHANGE IN FACILITIES SINCE	4152N 12326E	0290		55-C
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KAI-YUAN AIRFIELD 6.5 NM SSW OF KAI-YUAN. NO APPARENT CHANGE IN FACILITIES SINCE [REDACTED] AIRCRAFT -- 17 FAGOT/FRESCO AND 31 UNIDENTIFIED SINGLE-ENGINE STRAIGHT-WING AIRCRAFT. [REDACTED]	4231N 12400E	0290	[REDACTED]	40
KU-SHAN-TZU AIRFIELD 16.5 NM SW OF KU-SHAN-TZU AND ONE NM SW OF TIAO-YU-TAI. AIRFIELD SITE 20 PER CENT OBSCURED BY CLOUDS AND HAZE. NO NEW CONSTRUCTION OR RADAR OBSERVED IN CLOUD-FREE AREAS. AIRCRAFT -- 17 POSSIBLE FAGOT/FRESCO. [REDACTED]	4201N 12544E	0290	[REDACTED]	41
TA-TUN AREA, AIRFIELD 6 NM ESE OF TA-TUN AND 12 NM SSW OF CHANG-CHUN. SOD LANDING AREA (HAZE PRECLUDES DETERMINATION OF DIMENSIONS). FACILITIES INCLUDE APPROXIMATELY 500 FT E/W CONCRETE PARKING APRON, 2 HANGARS, AND APPROXIMATELY 20 SUPPORT BUILDINGS. AIRCRAFT -- 13 STRAIGHT-WING SINGLE-ENGINE PROBABLE FIGHTERS. [REDACTED]	4343N 12515E	0290	[REDACTED]	60
CHANG-CHUN AIRFIELD WEST 2 NM NW OF CHANG-CHUN. NO APPARENT CHANGE IN FACILITIES SINCE [REDACTED]	4354N 12512E	0290	[REDACTED]	28-B

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<div> <div></div> <div>AIRCRAFT -- NONE OBSERVED.</div> <div></div> </div>			25X1	
TA-TUNG-KOU AIRFIELD 4 NM NORTH OF TA-TUNG-KOU. ONLY APPROXIMATELY 35 PER CENT OF NNE END OF RUNWAY OBSERVED DUE TO INCOMPLETE PHOTOGRAPHIC COVERAGE. AIRCRAFT -- 18 FAGOT/FRESCO	3956N 12408E	0380		3
YEN-TAI AIRFIELD SOUTH 8 NM SOUTH OF YEN-TAI. 6,400 X 200 FT NE/SW CONCRETE RUNWAY, SERVICEABLE. NO NEW CONSTRUCTION OBSERVED. AIRCRAFT -- 65 FAGOT/FRESCO.	3724N 12121E	0381		80--A
TU-CHENG-TZU AIRFIELD 5 NM NORTH OF LU-SHUN. NO APPARENT CHANGE IN FACILITIES SINCE	3854N 12115E	0381		70
<div> <div></div> <div>AIRCRAFT -- 28 BEAGLE.</div> <div></div> </div>		25X1		
CHOU-SHUI-TZU AIRFIELD ONE NM SOUTH OF CHOU-SHUI-TZU. TWO PARALLEL WNW/ESE CONCRETE RUNWAYS, 6,400 X 190 FT AND 5,600 X 190 FT, SERVICEABLE. FACILITIES OBSERVED IN CLOUD-FREE AREAS INCLUDE 2 FORMER RUNWAYS IN USE AS TAXIWAYS, 15 REVETTED HARDSTANDS, 3 LINK TAXIWAYS, ALERT	3858N 12133E	0381		14
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<p>APRON, PARKING APRON, AND HANGAR. NO NEW CONSTRUCTION OBSERVED.</p> <p>AIRCRAFT -- 14 FAGOT, 15 FRESCO, AND ONE CRATE.</p> <p>[REDACTED]</p>				
<p>YING-CHENG-TZU AIRFIELD</p> <p>.5 NM NORTH OF YING-CHENG-TZU.</p> <p>6,600 X 180 FT NE/SW CONCRETE RUNWAY, SERVICEABLE.</p> <p>FIVE VEHICLES AND UNIDENTIFIED MATERIAL OBSERVED ON TAXIWAY AND PARKING APRON.</p> <p>NO NEW CONSTRUCTION OBSERVED.</p> <p>AIRCRAFT -- NONE OBSERVED.</p> <p>[REDACTED]</p>	3901N 12123E	0381	25X1	81
<p>CHIN-CHOU AIRFIELD SOUTHEAST 1</p> <p>7 NM SE OF CHIN-HSIEN (CHIN-CHOU).</p> <p>NO APPARENT CHANGE IN FACILITIES SINCE [REDACTED]</p> <p>[REDACTED] OBSERVED IN CLOUD-FREE AREAS.</p> <p>AIRCRAFT -- NONE OBSERVED.</p> <p>[REDACTED]</p>	3904N 12145E	0381	25X1	10-B
<p>SAN-SHIH-LI-PU AIRFIELD</p> <p>2 NM NW OF SAN-SHIH-LI-PU.</p> <p>NO APPARENT CHANGE IN FACILITIES SINCE [REDACTED]</p> <p>[REDACTED]</p> <p>AIRCRAFT -- 16 FAGOT/FRESCO.</p> <p>[REDACTED]</p>	3917N 12146E	0381	25X1	55
<p>PU-LAN-TIEN AIRFIELD SOUTH</p> <p>4.8 NM SOUTH OF PU-LAN-TIEN.</p> <p>AIRFIELD 60 PER CENT CLOUD COVERED.</p> <p>NO APPARENT CHANGE IN FACILITIES SINCE [REDACTED]</p>	3919N 12158E	0381	25X1	54-B

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<p>[REDACTED] OBSERVED IN CLOUD-FREE AREAS. AIRCRAFT -- NONE OBSERVED. [REDACTED]</p> <p>PU-LAN-TIEN AIRFIELD 4 NM NE OF PU-LAN-TIEN. NO APPARENT CHANGE IN FACILITIES SINCE [REDACTED] [REDACTED] AIRCRAFT 40 FAGOT/FRESCO, ONE COLT, AND 2 STRAIGHT-WING SINGLE-ENGINE AIRCRAFT. [REDACTED]</p> <p><u>MILITARY/NAVAL INSTALLATIONS</u></p> <p>FU-LA-ERH-CHI AREA, BARRACKS AREA TWO AREAS 5 NM NW OF FU-LA-ERH-CHI.</p> <p>AREA A -- PARTIALLY ENTRENCHED AREA WITH 12 BARRACKS, 6 SUPPORT BUILDINGS, MESS HALL/ ADMINISTRATIVE BUILDING, AND STORAGE BUILDING.</p> <p>AREA B -- 4 POSSIBLE BARRACKS, LARGE ADMINISTRATIVE BUILDING UNDER CONSTRUCTION, AND APPROXIMATELY 10 ASSOCIATED BUILDINGS. [REDACTED]</p> <p>TA-HA-ERH AREA, MILITARY INSTALLATION 1.5 NM SSE OF TA-HA-ERH. INSTALLATION CONTAINS LARGE MULTISTORIED ADMINISTRATIVE BUILDING, T-SHAPED ADMINISTRATIVE BUILDING, 6 PROBABLE BARRACKS, MESS HALL, APPROXIMATELY 18 ASSOCIATED BUILDINGS, AND 2 SMALL PROBABLE HEATING PLANTS.</p>	<p>3927N 12201E</p> <p>4716N 12334E</p> <p>4732N 12414E</p>	<p>0381</p> <p>0283</p> <p>0283</p>	<p>25X1</p> <p>[REDACTED]</p> <p>25X1</p>	<p>54-A</p> <p>36-B</p> <p>28-D</p>

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1,500 X 70 FT WSW/ENE RUNWAY, PROBABLE GRADED EARTH, UNSERVICEABLE, OBSERVED .3 NM SSE OF MILITARY INSTALLATION. FACILITIES INCLUDE HANGAR, POSSIBLE COMMUNICATIONS TOWER AND BUILDING, AND 3 ASSOCIATED BUILDINGS. STORAGE AREA WITH 5 UNDERGROUND BUNKERS AND 5 ASSOCIATED BUILDINGS OBSERVED .3 NM EAST OF MILITARY INSTALLATION. MILITARY INSTALLATION, AIRFIELD, AND STORAGE AREA CONNECTED BY SINGLE-LANE, ALL-WEATHER ROAD. [REDACTED]				
TAO-NAN AREA, BARRACKS AND STORAGE AREAS 16 NM SE OF TAO-NAN. TWO ADJACENT AREAS OBSERVED, ONE SECURED AREA CONTAINING 14 BARRACKS-TYPE BUILDINGS AND THE OTHER AREA CONTAINING 4 BARRACKS-TYPE, 19 STORAGE, AND 8 MISCELLANEOUS SUPPORT BUILDINGS. [REDACTED]	4506N 12257E	0284		6-A
TAO-AN AREA, ORDNANCE TEST FACILITY APPROXIMATELY 10.7 NM NW OF TAO-AN. ORDNANCE TEST FACILITY COMPRISES SUPPORT COMPLEX, EXPLOSIVES STORAGE AREA, RAIL-SERVED STORAGE FACILITY, FIRING AREA, TEST AREA, COMMUNICATIONS FACILITY, AND INSTRUMENTED RANGE SIMILAR TO THAT IDENTIFIED AT TU-KO-MA-CHING TEST FACILITY, CHINA. RAIL-SERVED SUPPORT COMPLEX CONTAINS APPROXIMATELY 132 BUILDINGS, INCLUDING 5 LARGE ADMINISTRATIVE-TYPE, 9 STORAGE-TYPE (3 RAIL SERVED), 8 LARGE SHOP-TYPE, 53 PERSONNEL-TYPE, AND 48 SUPPORT-TYPE BUILDINGS, 3 MOTOR POOLS,	4543N 12239E	0284		5-E
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<p>7 HEATING PLANTS, AND 2 LARGE EARTH-COVERED BUNKERS. EXPLOSIVES STORAGE AREA, APPROXIMATELY 2 NM NW OF SUPPORT COMPLEX AT 45-44-50N 122-37-00E, CONTAINS 5 LARGE AND 5 SMALL REVETTED BUILDINGS AND ONE BUILDING UNDER CONSTRUCTION. AREA IS DOUBLE FENCED WITH LIGHT POLES AND GUARD TOWERS POSITIONED ALONG PERIMETER FENCE. FENCED, RAIL-SERVED ASSOCIATED STORAGE AREA, APPROXIMATELY 1.5 NM SSW OF THE SUPPORT COMPLEX AT 45-42-30N 122-38-00E, CONTAINS 10 LARGE STORAGE-TYPE AND ONE SMALL SUPPORT-TYPE BUILDING. FENCED SUPPORT-TYPE FACILITY, ADJACENT TO STORAGE AREA, CONTAINS HEATING PLANT, 3 BARRACKS-TYPE BUILDINGS, MESS HALL, AND 5 OTHER BUILDINGS. FIRING AREA CONTAINS 11 CONCRETE FIRING POSITIONS, INCLUDING 3 OVAL EYEBALL REVETMENTS SIMILAR TO SOME POSITIONS IDENTIFIED AT TU-KO-MA-CHING TEST FACILITY, 5 PROBABLE SHOPS AND 2 HEATING PLANTS TO THE REAR OF THE FIRING POSITIONS, AND T-SHAPED BUILDING ENCLOSED BY CIRCULAR EARTHEN REVETMENT HIGHER THAN THE BUILDING. A SERIES OF TOWERS, ALSO SIMILAR TO THOSE AT TU-KO-MA-CHING TEST FACILITY, EXTENDS APPROXIMATELY 10 NM DOWNRANGE FROM FIRING AREA. TEST AREA, IMMEDIATELY EAST OF FIRING POSITIONS, COMPRISES 5 SEPARATE AREAS, 4 OF WHICH CONSIST OF A BUILDING WITH OPEN-ROOFED RECTANGULAR ANNEX MADE UP OF A SERIES OF FRAMES OR PARTITIONS, THE LONG AXIS OF WHICH IS ORIENTED DOWNRANGE. EXTENDING DOWNRANGE FROM ALL 5 AREAS ARE CONCRETE ROADS OF VARYING LENGTHS ON WHICH ARE LOCATED 3-5 TURNOUTS</p>				

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THAT SERVICE TARGETS OR BILLBOARDS SIMILAR TO THOSE AT TU-KO-MA-CHING TEST FACILITY. SMALL COMMUNICATIONS FACILITY WITH AT LEAST 2 STICK MASTS IS LOCATED IN THE MAIN SUPPORT COMPLEX. <div></div>				
TAO-AN, POSSIBLE BARRACKS AREA 16.5 NM NW OF TAO-AN. AREA, APPARENTLY OLD AIRFIELD SITE NOW POSSIBLY ASSOCIATED WITH TAO-AN AREA, ORDNANCE TEST FACILITY, COMPRISES 50 BUILDINGS AND NUMEROUS REVETMENTS NE OF BUILDINGS. <div></div>	4546N 12232E	0284		5-C
NIEN-TZU-SHAN, ARSENAL NORTH EDGE OF NIEN-TZU-SHAN. EXTENSIVE RECENT CONSTRUCTION OBSERVED AT LARGE ARSENAL, WHICH COMPRISES STORAGE AND PRIMARY PROCESSING AREA WITH 56 BUILDINGS (ONE UNDER CONSTRUCTION), SECONDARY PROCESSING AREA WITH 37 BUILDINGS (19 REVETTED AND SOME WITH BLAST WALLS), AND STORAGE AREA WITH 4 SEPARATE SECTIONS CONTAINING A TOTAL OF 36 BUILDINGS (26 REVETTED). EXPLOSIVES TEST FACILITY, PROBABLY ASSOCIATED WITH ARSENAL, OBSERVED 4 NM SSE OF ARSENAL. <div></div>	4731N 12252E	0284		9-B
TA-SHIH-CHIAO AREA, MILITARY AREAS EIGHT MILITARY AREAS CENTERED <div></div>	4037N 12233E	0289	25X1	26-B

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City, Installation	Coordinates	WAC	Installation Numbers	
			BE	NPIC
APPROXIMATELY 2.5 NM SE OF TA-SHIH-CHIAO (40-38N 122-30E).				
AREA A -- REPORTED ON [REDACTED] [REDACTED] AT 40-36N 122-34E NOT COVERED BY PHOTOGRAPHY ON [REDACTED]				
AREA B (40-38N 122-34E) -- NO APPARENT CHANGE IN FACILITIES SINCE [REDACTED] THREE UNIDENTIFIED VEHICLES OBSERVED IN MOTOR POOL.		25X1		
AREA C (40-37N 122-33E) -- NO APPARENT CHANGE IN FACILITIES SINCE [REDACTED] APPROXIMATELY 10 UNIDENTIFIED VEHICLES AND 5 SMALL UNIDENTIFIED OBJECTS OBSERVED IN MOTOR POOL.		25X1		
AREA D (40-37N 122-31E) -- 6 BARRACKS, 2 POSSIBLE BARRACKS, 10 STORAGE, 2 MONITOR-ROOF MAINTENANCE, 2 ADMINISTRATIVE, AND NUMEROUS SUPPORT BUILDINGS, AND MOTOR POOL WITH ONE TRUCK AND 15 SMALL UNIDENTIFIED OBJECTS.				
AREA E (40-38N 122-33E) -- NO APPARENT CHANGE IN FACILITIES SINCE [REDACTED] TWENTY-ONE UNIDENTIFIED VEHICLES OBSERVED IN MOTOR POOL.		25X1		
AREA F (40-38N 122-32E) -- 20 BARRACKS-TYPE AND 25 SUPPORT BUILDINGS AND MOTOR POOL WITH 20 VEHICLES AND 8 PROBABLE FA PIECES.				
AREA G (1.5 NM WSW OF TA-SHIH-CHIAO AT 40-38N 122-28E) -- AREA NOT REPORTED ON		25X1		

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City, Installation	Coordinates	WAC	Installation Numbers	
			BE	NPIC
<div>CONTAINS 20 BARRACKS AND 15 SUPPORT BUILDINGS. NO VEHICLES OR EQUIPMENT OBSERVED.</div> <div>AREA H (IMMEDIATELY WEST OF AREA G AT 40-38N 122-37E) -- AT LEAST 18 BARRACKS, 20 OTHER BUILDINGS, AND MOTOR POOL WITH 8 PROBABLE VEHICLES OBSERVED IN CLOUD-FREE AREAS.</div>				
<div>HAI-CHENG AREA, MILITARY INSTALLATION</div> <div>INSTALLATION COMPRISES 6 SEPARATE AREAS WITHIN 6 NM RADIUS OF HAI-CHENG.</div> <div>NO APPARENT CHANGE IN FACILITIES SINCE</div> <div>OBSERVED IN CLOUD-FREE AREAS.</div> <div>TWELVE CANVAS-COVERED PROBABLE TANKS AND 2 CARGO TRUCKS WITH FA PIECES IN TOW OBSERVED IN AREA D.</div>	4052N 12245E	0289	25X1	35--A
<div>AN-TUNG AREA, BARRACKS AREA NORTH</div> <div>4 NM NORTH OF AN-TUNG.</div> <div>ROAD AND RAIL-SERVED AREA CONTAINS 40 BARRACKS-TYPE AND 60 ADMINISTRATIVE/SUPPORT BUILDINGS AND 6 VEHICLES.</div> <div>VEHICLE PARK AND MAINTENANCE AREA OBSERVED .5 NM SW OF BARRACKS AREA CONTAINS 13 SHOPS/SHEDS, 7 BARRACKS, 5 ADMINISTRATIVE/STORAGE BUILDINGS, AND NUMEROUS UNIDENTIFIED VEHICLES/PIECES OF EQUIPMENT PARKED IN AREA.</div>	4011N 12421E	0290		27-J
<div>AN-TUNG AREA, BARRACKS AREA</div> <div>8.5 NM NW OF AN-TUNG.</div>	4015N 12417E	0290	25X1	27-I

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City, Installation	Coordinates	WAC	Installation Numbers	
			BE	NPIC
<p>AREA CONTAINS APPROXIMATELY 110 BARRACKS-TYPE, ADMINISTRATIVE, AND SUPPORT BUILDINGS AND 24 FA PIECES.</p> <p>[REDACTED]</p> <p>CHANG-TIEN-HO-KOU, MILITARY INSTALLATION 5 NM NORTH OF CHANG-TIEN-HO-KOU. INSTALLATION, COMPRISING 2 ADJACENT AREAS, CONTAINS A TOTAL OF 125 BARRACKS-TYPE, ADMINISTRATIVE, AND STORAGE BUILDINGS.</p> <p>[REDACTED]</p>	4029N 12448E	0290		87
<p>KUAN-TIEN AREA, BARRACKS AND STORAGE AREAS 12 NM SE OF KUAN-TIEN AT YUNG-TIEN-CHENG. NO APPARENT CHANGE SINCE [REDACTED]</p> <p>[REDACTED] OBSERVED IN CLOUD-FREE AREAS.</p> <p>[REDACTED]</p>	4034N 12447E	0290	25X1	42-B
<p>LIAO-YANG ARMY BARRACKS SOUTHWEST 2 NM SW OF LIAO-YANG. NO APPARENT CHANGE IN FACILITIES SINCE [REDACTED]</p> <p>[REDACTED] OBSERVED IN CLOUD-FREE AREAS. TWENTY-NINE PROBABLE FA PIECES AND 38 PROBABLE CARGO TRUCKS OBSERVED.</p> <p>[REDACTED]</p>	4114N 12307E	0290	25X1	46-D
<p>LIAO-YANG SUB ARSENAL MUKDEN 90TH 4.5 NM ENE OF LIAO-YANG. NO APPARENT CHANGE IN FACILITIES SINCE [REDACTED]</p> <p>[REDACTED] OBSERVED IN CLOUD-FREE AREAS.</p> <p>[REDACTED]</p>	4117N 12315E	0290	25X1	46-C
<p>SHEN-YANG AREA, MILITARY BARRACKS 3 NM WSW OF SHEN-YANG.</p>	4145N 12317E	0290		55-S

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City, Installation	Coordinates	WAC	Installation Numbers	
			BE	NPIC
NO APPARENT CHANGE IN FACILITIES SINCE [REDACTED] [REDACTED] APPROXIMATELY 20 PROBABLE VEHICLES OBSERVED. [REDACTED]			25X1 25X1	
SHEN-YANG ARSENAL 90TH NORTH EDGE OF SHEN-YANG. NO APPARENT CHANGE SINCE [REDACTED] [REDACTED]	4148N 12329E	0290	[REDACTED] 25X1	55-B
FU-SHUN AMMO DEPOT LI-JEN-TUN 5 NM NW OF FU-SHUN. NO APPARENT CHANGE IN FACILITIES SINCE [REDACTED] [REDACTED] TWO TRUCKS OBSERVED IN AREA. [REDACTED]	4154N 12347E	0290	[REDACTED] 25X1	36-A
CHANG-CHUN AREA, MILITARY INSTALLATION 5 NM ESE OF CHANG-CHUN. ONE LARGE MULTI-WING ADMINISTRATIVE, APPROXIMATELY 25 BARRACKS-TYPE, AND APPROXIMATELY 30 SMALLER BUILDINGS OBSERVED IN CLOUD-FREE AREAS OF SECURED, ROAD-SERVED MILITARY INSTALLATION. PROBABLE MANEUVER AREA OBSERVED IMMEDIATELY EAST OF INSTALLATION. [REDACTED]	4351N 12526E	0290		28-K
CHI-LIN, REGIMENTAL MILITARY INSTALLATION IDENTIFICATION ONLY. [REDACTED]	4353N 12631E	0290		31-B1
CHI-LIN, REGIMENTAL MILITARY INSTALLATION IDENTIFICATION ONLY.	4356N 12628E	0290	25X1	31-I

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City, Installation	Coordinates	WAC	Installation Numbers	
			BE	NPIC
<div>[REDACTED]</div> <p>KU-SHAN AREA, AAA DEFENSES CHINA COAST OF KOREA BAY FROM MOUTH OF YA-LU CHIANG (RIVER) AT 39-45N 123-30E TO LIMIT OF PHOTOGRAPHY AT 40-00N 124-15E. NUMEROUS SEARCHLIGHT AND OCCUPIED 4-GUN AND 6-GUN AAA SITES OBSERVED.</p> <div>[REDACTED]</div>	3954N 12335E	0380		2-B
		25X1		
<p>FU-SHAN ARMY BARRACKS SOUTHWEST ONE NM SW OF FU-SHAN. INSTALLATION COMPRISES APPROXIMATELY 32 BARRACKS AND ONE LARGE ADMINISTRATIVE, 6 PROBABLE VEHICLE STORAGE/MAINTENANCE, AND APPROXIMATELY 35 SUPPORT/STORAGE BUILDINGS. TRAINING AREA OBSERVED AT EAST EDGE OF INSTALLATION.</p> <div>[REDACTED]</div>	3729N 12114E	0381	<div>[REDACTED]</div>	80-B
<p>TO-CHI TAO (ISLAND), COASTAL GUN SITE 22 NM NORTH OF PENG-LAI IN GULF OF PO-HAI. NO APPARENT CHANGE SINCE <div>[REDACTED]</div></p> <div>[REDACTED]</div> <div>[REDACTED]</div>	3810N 12045E	0381		111
		25X1		
<p>NAN-HUANG-CHENG TAO (ISLAND), GUN EMPLACEMENTS 33 NM NNE OF PENG-LAI IN GULF OF PO-HAI. NO APPARENT CHANGE SINCE <div>[REDACTED]</div></p> <div>[REDACTED]</div> <div>[REDACTED]</div>	3821N 12054E	0381		108
		25X1		
<p>PEI-HUANG-CHENG TAO (ISLAND), GUN EMPLACEMENT 36 NM NNE OF PENG-LAI. NO APPARENT CHANGE SINCE <div>[REDACTED]</div></p>	3823N 12054E	0381		109
		25X1 25X1		

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City, Installation	Coordinates	WAC	Installation Numbers	
			BE	NPIC
<div>[REDACTED]</div> <p>LU-SHUN AREA, COASTAL DEFENSES 7 NM SSW OF LU-SHUN. NO APPARENT CHANGE SINCE <div>[REDACTED]</div></p>	3843N 12110E	0381	25X1	53-H1
<p>LU-SHUN AREA, GUN POSITIONS APPROXIMATELY 3 NM ENE OF PORT ARTHUR SEAPLANE STATION. NO APPARENT CHANGE SINCE <div>[REDACTED]</div></p>	3843N 12118E	0381		53-H
<p>LU-SHUN AREA, GUN POSITIONS APPROXIMATELY 2 NM SW OF PORT ARTHUR SEAPLANE STATION. NO APPARENT CHANGE SINCE <div>[REDACTED]</div></p>	3846N 12113E	0381	25X1	53-I
<p>LU-SHUN SUBMARINE BASE ONE NM SSW OF LU-SHUN ON SOUTH SHORE OF HSI CHIANG (HARBOR). NO APPARENT CHANGE IN FACILITIES SINCE <div>[REDACTED]</div></p>	3847N 12114E	0381	<div>[REDACTED]</div>	53-D
<p>VESSLS -- 7 W-CLASS SUBMARINES, ONE PROBABLE W-CLASS SUBMARINE, 12 PT, 2 PF, 3 FREIGHTERS, AND NUMEROUS SMALL CRAFT.</p>			25X1	
<p>TA-LIEN ARMY SUPPLY DEPOT CHOU-SHUI-TZU IDENTIFICATION ONLY.</p>	3857N 12132E	0381	<div>[REDACTED]</div>	18-F

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City, Installation	Coordinates	WAC	Installation Numbers	
			BE	NPIC
<div>[REDACTED]</div> <p>YING-CHENG-TZU AREA, MILITARY TRAINING AREA APPROXIMATELY 5.5 NM NNW OF YING-CHENG-TZU AND ADJACENT TO WEST SIDE OF YING-CHENG-TZU AIRFIELD. NO APPARENT CHANGE SINCE <div>[REDACTED]</div> <div>[REDACTED]</div> NO MILITARY EQUIPMENT OBSERVED ON AIRFIELD. <div>[REDACTED]</div></p>	3901N 12121E	0381	25X1	81-A
<p>TA-LIEN AREA, MOTOR POOL 8 NM NW OF TA-LIEN ON NE EDGE OF HSIA- CHIA-HO-TZU. SMALL MOTOR POOL CONTAINS 22 CARGO TRUCKS, 30 FA PIECES, 11 PROBABLE FA PIECES, AND 6 AAA PIECES. <div>[REDACTED]</div></p>	3901N 12130E	0381		18-G
<p>CHIN-HSIEN AREA, MILITARY INSTALLATION 3 NM NNW OF CHIN-HSIEN. INSTALLATION CONTAINS ONE LARGE BUILDING COMPRISING 15 INTERCONNECTED WINGS, 3 ADMINISTRATIVE BUILDINGS, 27 BARRACKS, MOTOR POOL, EQUIPMENT PARK, TRAINING AREA, 50 PROBABLE TRACKED PRIME MOVERS, 2 PROBABLE CANVAS-COVERED TANKS, AND 19 PROBABLE FA PIECES. <div>[REDACTED]</div></p>	3909N 12140E	0381		10-H
<p>SU-CHIA-TUN, MILITARY INSTALLATIONS 3 NM SE OF SAN-SHIH-LI-PU AIRFIELD AT SSW EDGE OF SU-CHIA-TUN. AREA A -- 5 BARRACKS, 2 VEHICLE SHEDS, 3</p>	3915N 12147E	0381	25X1	55-A

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City, Installation	Coordinates	WAC	Installation Numbers	
			BE	NPIC
SUPPORT BUILDINGS, 12 TRACKED PRIME MOVERS, 15 CARGO TRUCKS, AND 11 FA PIECES. AREA B -- AREA PREVIOUSLY REPORTED IN [REDACTED] [REDACTED] NOT OBSERVED DUE TO CLOUD COVER. [REDACTED]			25X1	
PU-LAN-TIEN AREA, MILITARY INSTALLATION 8 NM SSE OF PU-LAN-TIEN. NO APPARENT CHANGE IN FACILITIES SINCE [REDACTED] [REDACTED] VEHICLES -- 11 PROBABLE FA PIECES AND 18 UNIDENTIFIED VEHICLES. [REDACTED]	3917N 12202E	0381	25X1	54-D
FU-HSIEN MILITARY COMPLEX PROBABLE TANK-ASSAULT GUN REGIMENTAL AREA AND BARRACKS AREA WITH 20 BARRACKS, 8 AMMUNITION STORAGE BUILDINGS, AND APPROXIMATELY 30 SUPPORT BUILDINGS OBSERVED THROUGH SCATTERED CLOUDS. NO VEHICLES OR EQUIPMENT OBSERVED IN EITHER AREA. [REDACTED]	3937N 12202E	0381		21-C
<u>ELECTRONICS/COMMUNICATIONS</u> NAN-CHENG-HUANG TAO (ISLAND), RADAR SITE EAST SIDE OF NAN-CHENG-HUANG TAO (NAN-HUANG-CHENG TAO). SITE COMPRISES 2 SCR-270 RADARS APPROXIMATELY 300 FT APART (EASTERNMOST RADAR ROTATING) AND ONE BUILDING ASSOCIATED WITH EACH RADAR.	3821N 11954E	0381	25X1	123

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City, Installation	Coordinates	WAC	Installation Numbers	
			BE	NPIC
<div>[REDACTED]</div> <p>TA-HEI-SHAN TAO (ISLAND) AREA, POSSIBLE RADAR 4 NM NORTH OF TA-HEI-SHAN TAO (ISLAND) ON UNNAMED ISLAND. INSTALLATION COMPRISES POSSIBLE RADAR AND 14 ASSOCIATED BUILDINGS.</p> <div>[REDACTED]</div>	3803N 12038E	0381		106
<p>INDUSTRY</p> <p>HA-ERH-PIN AREA, CEMENT PLANT 5 NM NE OF HA-ERH-PIN. ROAD AND RAIL-SERVED INSTALLATION, PREVIOUSLY REPORTED IN [REDACTED] AS POSSIBLE CHEMICAL INDUSTRY, NOW IDENTIFIED AS ACTIVE CEMENT PLANT WITH LARGE PROCESSING BUILDING WITH 3 STACKS AND 50 SMALLER ASSOCIATED BUILDINGS. HOUSING/ADMINISTRATIVE AREA OBSERVED AT SE EDGE OF PLANT.</p> <div>[REDACTED]</div>	4549N 12643E	0283		42-H
<p>AN-TA-CHAN AREA, OIL FIELDS</p> <p>OIL FIELDS AND ASSOCIATED COMPLEX, COMPRISING 4 AREAS, APPROXIMATELY 18 NM NW OF AN-TA-CHAN.</p> <p>OIL FIELDS -- GENERALLY ENCIRCLE COMPLEX AND COMPRISE NUMEROUS DRILLING SITES AND AT LEAST 6 SMALL POL STORAGE AREAS WITH A TOTAL OF 2 LARGE, 13 MEDIUM, AND 17 SMALL VERTICAL STORAGE TANKS.</p> <p>COMPLEX AREA A (12.5 NM NW OF AN-TA-CHAN AT 46-32N 125-05E) -- RAIL-SERVED REFINERY UNDER</p>	4636N 12500E	0283		118

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<p>CONSTRUCTION CONTAINING AT LEAST 11 LARGE VERTICAL STORAGE TANKS, 5 LARGE STORAGE TANKS UNDER CONSTRUCTION, 20 MEDIUM STORAGE TANKS, 5 MEDIUM STORAGE TANKS UNDER CONSTRUCTION, 6 SMALL STORAGE TANKS, 5 MONITOR-ROOF BUILDINGS, 3 LARGE STORAGE BUILDINGS, NUMEROUS BUILDINGS UNDER CONSTRUCTION, AND INTERNAL PIPELINE NETWORK.</p> <p>COMPLEX AREA B (17 NM NW OF AN-TA-CHAN ON THE SE EDGE OF SA-ERH-TU) -- RAIL-SERVED POSSIBLE REFINERY UNDER CONSTRUCTION CONTAINING 2 LARGE VERTICAL STORAGE TANKS NEARING COMPLETION, 3 MEDIUM AND 7 SMALL STORAGE TANKS UNDER CONSTRUCTION, ONE TALL STACK, AT LEAST 12 COMPLETED BUILDINGS, 20 BUILDINGS IN VARIOUS STAGES OF CONSTRUCTION, AT LEAST 4 PIPELINES, AND ONE ENGINE AND 15 RAILROAD CARS ON RAIL SPUR.</p> <p>COMPLEX AREA C (22.5 NM NW OF AN-TA-CHAN) -- RAIL-SERVED, PROBABLY SECURED TANK FARM CONTAINING 12 LARGE AND AT LEAST 8 MEDIUM VERTICAL STORAGE TANKS.</p> <p>COMPLEX AREA D (24 NM NW OF AN-TA-CHAN AND ONE NM NW OF AREA C) -- RAIL-SERVED (5 SPURS) UNIDENTIFIED INDUSTRY UNDER CONSTRUCTION COMPRISING MONITOR-ROOF BUILDING, LARGE STORAGE BUILDING, AND NUMEROUS PILES OF MATERIALS SCATTERED THROUGHOUT AREA. SECURED POL STORAGE AREA AT THE EAST EDGE OF AREA D CONTAINS 5 LARGE AND 6 MEDIUM VERTICAL STORAGE TANKS, WORKERS HOUSING AREA IMMEDIATELY SOUTH OF AREA D CONTAINS 50</p>				

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City, Installation	Coordinates	WAC	Installation Numbers	
			BE	NPIC
<p>BUILDINGS AND 8 BUILDINGS UNDER CONSTRUCTION, RAILROAD CLASSIFICATION YARD (10 TRACKS WIDE) NORTH OF AREA D CONTAINS APPROXIMATELY 325 RAILROAD CARS, AND LARGE ADMINISTRATIVE AND HOUSING AREA UNDER CONSTRUCTION IMMEDIATELY WEST OF AREA D CONTAINS APPROXIMATELY 320 BUILDINGS IN VARIOUS STAGES OF CONSTRUCTION, INCLUDING 12 LARGE ADMINISTRATIVE BUILDINGS.</p>				
<p>TA-SHIH-CHIAO AREA, MINING AREAS TWO SEPARATE MINING AREAS, ONE 4 NM SOUTH OF TA-SHIH-CHIAO AND THE OTHER 3 NM ESE OF TA-SHIH-CHIAO. BOTH RAIL-SERVED AREAS, EACH APPROXIMATELY 5 SQ MI IN AREA, CONTAIN NUMEROUS OPEN PITS, ORE CONCENTRATION FACILITIES, AND HOUSING AREAS.</p>	4037N 12235E	0289		26-A
<p>HAI-CHENG AREA, MINING ACTIVITY 8 NM SE OF HAI-CHENG. RAIL AND ROAD-SERVED MINING ACTIVITY COMPRISES 3 SEPARATE AREAS, EACH CONTAINING OPEN-PIT MINES, PROCESSING FACILITIES, AND HOUSING.</p>	4044N 12252E	0289		35-C
<p>TA-AN-PING, IRON AND STEEL WORKS NORTHERN EDGE OF TA-AN-PING. NO APPARENT CHANGE SINCE</p>	4111N 12325E	0290		107
OBSERVED IN CLOUD-FREE AREAS.		25X1		
OBLIQUITY AND SCATTERED CLOUDS PRECLUDE		25X1		

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City, Installation	Coordinates	WAC	Installation Numbers	
			BE	NPIC
DETERMINATION OF STATUS OF CONSTRUCTION. [REDACTED]			25X1	
SHEN-YANG AIRCRAFT ENGINE PLANT APPROXIMATELY 2 NM ESE OF OLD WALLED CITY OF SHEN-YANG (MUKDEN), ON NE EDGE OF MUKDEN AIRFIELD SE, AND IMMEDIATELY EAST OF SHEN-YANG ARSENAL 90TH. PLANT CONTAINS 5 LARGE FABRICATION-TYPE AND APPROXIMATELY 20 SMALLER ASSOCIATED BUILDINGS, POWER PLANT, UNDERGROUND POL STORAGE, AND 7 ENGINE TEST CELLS. [REDACTED]	4147N 12330E	0290	[REDACTED]	55-P
SHEN-YANG AIRFRAME PLANT 112 ADJACENT TO WEST SIDE OF MUKDEN AIRFIELD NORTH. NO APPARENT CHANGE IN FACILITIES SINCE [REDACTED] [REDACTED] OBSERVED IN CLOUD-FREE AREAS. [REDACTED]	4152N 12325E	0290	[REDACTED]	55-Q
FU-SHUN AREA, MINING AREA IDENTIFICATION ONLY. [REDACTED]	4155N 12406E	0290		36-B
HUAN-JEN AREA, MINING ACTIVITY 8 NM SE OF HUAN-JEN. ROAD-SERVED MINING ACTIVITY COMPRISES 3 SMALL SHAFT MINING AREAS ENCIRCLING LARGE ORE PROCESSING PLANT AND SUPPORT AREA WITH APPROXIMATELY 200 BARRACKS-TYPE AND 75 STORAGE/SUPPORT BUILDINGS. [REDACTED]	4111N 12530E	0290		119
			25X1	

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City, Installation	Coordinates	WAC	Installation Numbers	
			BE	NPIC
CHANG-CHUN MOTOR VEHICLE PLANT SW EDGE OF CHANG-CHUN. NO APPARENT CHANGE SINCE [REDACTED] [REDACTED] OBSERVED IN CLOUD-FREE AREAS (STORAGE AREA CLOUD COVERED).	4351N 12514E	0290	[REDACTED] 25X1 25X1	28-E
CHI-LIN IRON AND STEEL PLANT 2 NM NORTH OF CHI LIN. NO APPARENT CHANGE SINCE [REDACTED] [REDACTED] OBSERVED IN CLOUD-FREE AREAS.	4353N 12633E	0290	[REDACTED] 25X1 25X1	31-D
CHI-LIN CHEMICAL PLANT IDENTIFICATION ONLY. [REDACTED]	4354N 12635E	0290	[REDACTED] 25X1	31-H
CHI-LIN SYNTHETIC FUELS PLANT 6 NM NORTH OF CHI-LIN. NO APPARENT CHANGE SINCE [REDACTED] [REDACTED]	4355N 12632E	0290	[REDACTED] 25X1	31-E
TA-LIEN AREA, SHIPBUILDING FACILITY 4.5 NM SW OF TA-LIEN. NO EVIDENCE OF FURTHER CONSTRUCTION OF SHIPBUILDING FACILITY OBSERVED SINCE [REDACTED] [REDACTED]	3851N 12132E	0381	[REDACTED] 25X1 25X1	18-H
TA-LIEN SHIPYARDS SINO-SOV PT ARTHUR DAIREN NORTH EDGE OF TA-LIEN. NO APPARENT CHANGE IN FACILITIES SINCE [REDACTED] [REDACTED]	3855N 12138E	0381	[REDACTED] 25X1 25X1	18-C

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City, Installation	Coordinates	WAC	Installation Numbers	
			BE	NPIC
VESSLS -- 18 FREIGHTERS, ONE PROBABLE PF, 2 PROBABLE PC, AND NUMEROUS SMALL CRAFT. [REDACTED]				
<u>BASIC SERVICES</u>				
SUN-CHIA-TAI AREA, DAM 5.5 NM EAST OF SUN-CHIA-TAI ON CHING HO (RIVER). DAM APPEARS COMPLETED. NO EVIDENCE OF POWER GENERATION FACILITIES OBSERVED. UNIDENTIFIED INDUSTRIAL INSTALLATION OBSERVED UNDER CONSTRUCTION .7 NM WEST OF DAM IS POSSIBLE THERMAL ELECTRIC POWER PLANT. [REDACTED]	4233N 12409E	0290		40-B
<u>PORTS AND HARBORS</u>				
YING-KOU PORT FACILITIES IDENTIFICATION ONLY. [REDACTED]	4041N 12216E	0289	[REDACTED]	30-A
<u>STORAGE</u>				
CHU-CHIA-KANG, STORAGE AREA NW EDGE OF CHU-CHIA-KANG. NO APPARENT CHANGE SINCE [REDACTED] [REDACTED]	4720N 12309E	0283		110
ERH-SHIH-SSU-LI-SHAN AREA, U/G POL STORAGE 2 NM ENE OF ERH-SHIH-SSU-LI-SHAN. ROAD-SERVED, SECURED STORAGE AREA CONTAINS 10 LARGE UNDERGROUND STORAGE TANKS (APPROXIMATELY 100 FT DIAMETER), 5 SMALL BUILDINGS, AND 21	4727N 12301E	0283		110-A

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City, Installation	Coordinates	WAC	Installation Numbers	
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RAILROAD TANK CARS AND ONE GONDOLA CAR. BURIED PIPELINE EXTENDS FROM STORAGE AREA TO RAIL-SERVED TRANSFER POINT 1.5 NM SW OF STORAGE AREA.				
SHEN-YANG, POSSIBLE POL STORAGE AREA U/C EAST EDGE OF SHEN-YANG AND 5.8 NM EAST OF MUKDEN RAILROAD STATION. RAIL AND ROAD SERVED POSSIBLE POL STORAGE AREA CONTAINS 34 POSSIBLE POL TANKS (APPROXIMATELY 35 FT DIAMETER, NOT REVETTED) AND LARGE H-SHAPED ADMINISTRATIVE/SUPPORT, 12 BARRACKS-TYPE (7 UNDER CONSTRUCTION), 5 LARGE SUPPORT, AND NUMEROUS SMALLER SUPPORT BUILDINGS. NO SECURITY MEASURES OBSERVED.	4148N 12331E	0290		55-W
SHEN-YANG AREA, PROBABLE STORAGE AREA 10 NM NE OF SHEN-YANG. NO APPARENT CHANGE SINCE	4157N 12331E	0290	25X1	55-L
TUNG-HUA AREA, EXPLOSIVES STORAGE INSTALLATION INSTALLATION COMPRISES 4 AREAS APPROXIMATELY 7.5 NM WEST OF TUNG-HUA.	4148N 12548E	0290		66-C
AREA A -- TRIPLE-FENCED, SERVED BY LOOP ROAD, CONTAINING 21 SMALL REVETTED STORAGE AND 2 BARRACKS-TYPE BUILDINGS AND			25X1	
AREA B (NORTH OF AREA A) -- SERVED BY LOOP ROAD, CONTAINING 8 LARGE AND 2 SMALL REVETTED			25X1	

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City, Installation	Coordinates	WAC	Installation Numbers	
			BE	NPIC
STORAGE BUILDINGS AND [REDACTED] AREA C (SOUTH OF AREA A) --- SUPPORT AREA CONTAINING 12 BARRACKS-TYPE BUILDINGS. AREA D (3 NM NORTH OF AREA C) --- BARRACKS AREA CONTAINING APPROXIMATELY 80 ADMINISTRATIVE/ BARRACKS/STORAGE-TYPE BUILDINGS AND 2 SMALL REVENUED STORAGE BUILDINGS. [REDACTED]				
SHEN-YANG AREA, STORAGE AREA IDENTIFICATION ONLY. [REDACTED]	4207N 12345E	0290		55-N
SHEN-YANG AREA, MILITARY STORAGE AREA 18 NM NNW OF SHEN-YANG. ROAD AND RAIL-SERVED SECURED AREA CONTAINS 43 LARGE AND 8 SMALL WAREHOUSE-TYPE BUILDINGS AND 15 BARRACKS-TYPE BUILDINGS. [REDACTED]	4208N 12336E	0290		55-O
SHEN-YANG AREA, EXPLOSIVES STORAGE AREA 27 NM NE OF SHEN-YANG. ROAD AND RAIL-SERVED AREA CONTAINS 43 ROAD-SERVED REVENUED STORAGE BUILDINGS, [REDACTED] [REDACTED] LARGE SUPPORT BUILDING IN CENTER OF STORAGE AREA, 5 BARRACKS, AND ONE ADMINISTRATIVE AND 12 SUPPORT BUILDINGS AT WEST END OF AREA. [REDACTED]	4210N 12347E	0290	25X1 25X1	55-J
[REDACTED]				

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City, Installation	Coordinates	WAC	Installation Numbers	
			BE	NPIC
<div>25X1</div> <div>[REDACTED]</div> <div>CHI-LIN AREA, PROBABLE EXPLOSIVES STORAGE IDENTIFICATION ONLY.</div> <div>[REDACTED]</div>	4356N 12634E	0290		31-G
<div>25X1</div> <div>LU-SHUN AREA, EXPLOSIVES STORAGE AREA 7.5 NM NE OF LU-SHUN.</div> <div>NO APPARENT CHANGE SINCE [REDACTED]</div>	3854N 12120E	0381		53-J
<div>25X1</div> <div>[REDACTED]</div> <div>CHIN-HSIEN, EXPLOSIVES STORAGE DEPOT APPROXIMATELY 2 NM NE OF CHIN-HSIEN (CHIN-CHOU).</div> <div>NO APPARENT CHANGE SINCE [REDACTED]</div>	3907N 12146E	0381	25X1	10-D
<div>25X1</div> <div>[REDACTED]</div> <div>NO APPARENT CHANGE SINCE [REDACTED]</div> <div>[REDACTED]</div> <div>OBERVED IN CLOUD-FREE AREAS.</div> <div>[REDACTED]</div>			25X1	
<div>25X1</div> <div>FU-HSIEN AREA, EXPLOSIVES STORAGE 14 NM NNE OF FU-HSIEN ADJACENT TO SHEN-YANG--TA-LIEN RAILROAD.</div> <div>NO APPARENT CHANGE SINCE [REDACTED]</div> <div>[REDACTED]</div>	3952N 12206E	0381		21-B
<div>25X1</div> <div>[REDACTED]</div> <div>URBAN COMPLEXES</div> <div>HAI-LA-ERH (HAILAR) COMPLEX</div> <div>NO MAJOR INDUSTRIES OBSERVED IN COMPLEX APPROXIMATELY 5 SQ MI IN AREA.</div> <div>RAILROAD FACILITIES INCLUDE 2 CLASSIFICATION YARDS, RAILROAD CAR STORAGE YARD, PASSENGER STATION, ROUNDHOUSE, AND COAL STORAGE YARD.</div>	4913N 11944E	0202	25X1 25X1	55-D
			25X1	

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City, Installation	Coordinates	WAC	Installation Numbers	
			BE	NPIC
SEVEN STEAM LOCOMOTIVES, 67 PROBABLE TANK CARS, 83 PROBABLE GONDOLA CARS, AND 54 PROBABLE BOX CARS OBSERVED IN RAILROAD FACILITIES. NO NEW CONSTRUCTION OBSERVED.			25X1	
YA-KO-SHIH COMPLEX POL STORAGE AREA, WOOD PRODUCTS PLANT, CLAY PRODUCTS PLANT, AND HOUSING AREAS OBSERVED IN CLOUD-FREE AREAS.	4917N 12044E	0202		69-A
HA-ERH-PIN COMPLEX COMPLEX 95 PER CENT CLOUD COVERED. NO ACTIVITY AT INDUSTRIAL FACILITIES AND NO SMOKE EMITTING FROM SMOKESTACKS OBSERVED IN CLOUD-FREE AREAS. HEAVY CLOUDS AND HAZE PRECLUDE DETERMINATION OF NUMBER AND TYPE OF RAILROAD CARS IN CLASSIFICATION YARDS.	4545N 12639E	0283		42
ANG-ANG-CHI COMPLEX COMPLEX, 2 SQ MI IN AREA, COMPRISES RAILROAD CLASSIFICATION YARDS AND SHOPS, STORAGE AREAS, AND NUMEROUS RESIDENTIAL BUILDINGS.	4709N 12348E	0283		25
FU-LA-ERH-CHI COMPLEX COMPLEX, APPROXIMATELY 9 SQ MI IN AREA, INCLUDES 2 ADJACENT RAIL-SERVED METAL FABRICATION PLANTS ON WEST EDGE OF FU-LA-ERH-CHI, ONE CONTAINING 25 LARGE	4712N 12339E	0283		36

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City, Installation	Coordinates	WAC	Installation Numbers	
			BE	NPIC
FABRICATION-TYPE BUILDINGS (ONE APPARENTLY RECENTLY CONSTRUCTED) AND THE OTHER, IMMEDIATELY EAST OF FIRST PLANT, CONTAINING 9 LARGE FABRICATION/SHOP-TYPE AND NUMEROUS SMALLER BUILDINGS (SOME STACKS EMITTING SMOKE), LARGE THERMAL ELECTRIC POWER PLANT IMMEDIATELY SOUTH OF METAL FABRICATION PLANTS (TALL STACK EMITTING SMOKE), POL STORAGE AREA ONE NM NW OF FU-LA-ERH-CHI WITH 4 LARGE, 4 MEDIUM, AND 16 SMALL STORAGE TANKS, AND SECURED STORAGE AREA IMMEDIATELY EAST OF FU-LA-ERH-CHI WITH 30 STORAGE BUILDINGS AND 2 LOADING SHEDS. IN ADDITION, APPROXIMATELY 125 RAILROAD CARS OBSERVED IN COMPLEX, 35 OF WHICH ARE IN CLASSIFICATION YARDS (4 FLAT, 14 GONDOLA, AND 17 SMALL BOX CARS).				
CHI-CHI-HA-ERH COMPLEX COMPLEX, APPROXIMATELY 20 SQ MI IN AREA, COMPRISES 7 MAJOR PLANTS (INCLUDING RAILROAD CAR MANUFACTURING, METAL FABRICATION, WOOD PRODUCTS, AND PROBABLE AGRICULTURAL PROCESSING, REPORTED IN IPIR [REDACTED] AS CHEMICAL PROCESSING), NUMEROUS SMALL INDUSTRIES, ARMY DEPOT, AMMUNITION STORAGE, AND 2 RAILROAD CLASSIFICATION YARDS, ONE IN CENTER OF COMPLEX WITH APPROXIMATELY 200 RAILROAD CARS (INCLUDING APPROXIMATELY 22 PASSENGER, 78 GONDOLA, 40 LARGE BOX, 50 SMALL BOX, AND 10 TANK CARS) AND THE OTHER 15 NM SSW OF CHI-CHI-HA-ERH AT 47-06N 123-50E WITH APPROXIMATELY 700 CARS (OBLIQUITY PRECLUDES DETERMINATION OF TYPE). ALL MAJOR PLANTS APPEAR ACTIVE, ALTHOUGH SMOKE OBSERVED	4721N 12358E	0283	[REDACTED]	28

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City, Installation	Coordinates	WAC	Installation Numbers	
			BE	NPIC
EMITTING FROM ONLY ONE STACK IN WOOD PRODUCTS PLANT. [REDACTED]			25X1	
TAO-AN COMPLEX MAINLY RESIDENTIAL COMPLEX, APPROXIMATELY 5 SQ MI IN AREA, INCLUDES LARGE RAIL-SERVED STORAGE AREA WITH 10 LARGE BUILDINGS, BARRACKS AREA, SECURED RAIL-SERVED POL AREA WITH 5 LARGE SEMIBURIED TANKS AND 3 SMALLER TANKS, LARGE RAILROAD CLASSIFICATION YARD ON EAST EDGE OF TAO-AN WITH 16 TRACKS, TURNING WYE, AND APPROXIMATELY 175 RAILROAD CARS. [REDACTED]	4537N 12251E	0284	[REDACTED]	5-G
NIEN-TZU-SHAN COMPLEX COMPLEX, ON EAST BANK OF YA-LU CHIANG (RIVER) AND APPROXIMATELY 3 SQ MI IN AREA, INCLUDES ARSENAL AND LARGE OPEN-PIT MINE WITH ADJACENT RAIL-SERVED POSSIBLE ORE PROCESSING PLANT. [REDACTED]	4731N 12253E	0284		9
YING-KOU COMPLEX IDENTIFICATION ONLY. [REDACTED]	4040N 12217E	0289	[REDACTED]	30
HAI-CHENG COMPLEX COMPLEX, APPROXIMATELY 3 SQ MI IN AREA, COMPRISES MILITARY INSTALLATIONS, SOME LIGHT INDUSTRY, RAILROAD CLASSIFICATION YARD IN CENTER OF HAI-CHENG WITH 6 TRACKS, 17 RAILROAD CARS, AND 2 LOCOMOTIVES, AND SECURED BARRACKS AREA ON SE EDGE OF HAI-CHENG WITH 2 ADMINISTRATIVE-TYPE BUILDINGS, 10 BARRACKS, 20	4052N 12245E	0289	[REDACTED]	35-B
			25X1	

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City, Installation	Coordinates	WAC	Installation Numbers	
			BE	NPIC
STORAGE/SUPPORT BUILDINGS, 2 CANVAS-COVERED PROBABLE TANKS, AND 2 CARGO TRUCKS WITH FA PIECES IN TOW. [REDACTED]			25X1	
AN-SHAN COMPLEX NO APPARENT CHANGE IN FACILITIES SINCE [REDACTED] [REDACTED]	4107N 12257E	0289	[REDACTED]	1
SMOKE OBSERVED EMITTING FROM ONLY ONE OPEN- HEARTH FURNACE AND ASSOCIATED POWER PLANT INDICATES AN-SHAN IRON AND STEEL PLANT OPERATING AT LOW LEVEL OF ACTIVITY. [REDACTED]		25X1	25X1	
LIAO-YANG COMPLEX COMPLEX APPROXIMATELY 20 PER CENT CLOUD COVERED. NO MAJOR INDUSTRIAL OR MILITARY ACTIVITY OBSERVED IN CLOUD-FREE AREAS. THIRTEEN RAILROAD CARS AND 2 LOCOMOTIVES OBSERVED IN CLASSIFICATION YARDS. [REDACTED]	4117N 12311E	0290	[REDACTED]	46
PEN-CHI COMPLEX NO APPARENT CHANGE SINCE [REDACTED] [REDACTED] OBSERVED IN CLOUD-FREE AREAS. [REDACTED]	4118N 12345E	0290	[REDACTED]	51-8
SU-CHIA-TUN COMPLEX NO APPARENT CHANGE SINCE [REDACTED] [REDACTED]	4141N 12322E	0290	[REDACTED]	108
SHEN-YANG (MUKDEN) COMPLEX COMPLEX, APPROXIMATELY 67 SQ MI IN AREA,	4148N 12327E	0290	[REDACTED]	55

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City, Installation	Coordinates	WAC	Installation Numbers	
			BE	NPIC
COMPRISES NUMEROUS INDUSTRIES, LARGE MILITARY DEPOTS, STORAGE AND BARRACKS AREAS, AND 3 RAILROAD YARDS. APPROXIMATELY 1,100 RAILROAD CARS OBSERVED IN COMPLEX.				
[REDACTED]			25X1	
FU-SHUN COMPLEX NO APPARENT CHANGE IN FACILITIES SINCE [REDACTED]	4152N 12353E	0290	[REDACTED]	36
[REDACTED] ALL INDUSTRIAL FACILITIES APPEAR ACTIVE, BUT HAZE AND CLOUD COVER PRECLUDE DETERMINATION OF EXTENT OF ACTIVITY.		25X1		
[REDACTED]				
TUNG-HUA COMPLEX NO APPARENT CHANGE SINCE [REDACTED]	4143N 12556E	0290	[REDACTED]	66
[REDACTED]		25X1		
CHANG-CHUN COMPLEX COMPLEX, APPROXIMATELY 20 SQ MI IN AREA, COMPRISES MOTOR VEHICLE PLANT ON SW EDGE OF CHANG-CHUN, NUMEROUS INSTITUTIONAL-TYPE AREAS, BARRACKS, SUPPLY, AND AMMUNITION STORAGE FACILITIES, AND PROBABLE AIR FORCE TRAINING SCHOOL WITH AIRCRAFT PARKING APRON. AIRCRAFT -- ONE POSSIBLE FAGOT/FRESCO, 3 BEAGLE, 3 POSSIBLE BAT, AND 3 UNIDENTIFIED AIRCRAFT OBSERVED AT AIR FORCE TRAINING SCHOOL.	4352N 12521E	0290	[REDACTED]	28-A
[REDACTED]				
[REDACTED]			25X1	

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	City, Installation	Coordinates	WAC	Installation Numbers	
				BE	NPIC
25X1	[REDACTED]				
25X1	[REDACTED]		25X1		
25X1	CHI-LIN (KIRIN) COMPLEX IDENTIFICATION ONLY.	4351N 12633E	0290	[REDACTED]	31
25X1	[REDACTED]		25X1		
25X1	YEN-TAI (CHEFOO) COMPLEX RAIL-SERVED COMPLEX, 3 SQ MI IN AREA, COMPRISES PORT FACILITIES INCLUDING MOLE AND RAIL-SERVED MARGINAL WHARF AT END OF BREAKWATER, WAREHOUSE AREAS, SEVERAL LIGHT INDUSTRIES, AND SEVERAL GROUPS OF COMMUNAL-TYPE HOUSES. VESSELS -- 2 LARGE AND ONE SMALL FREIGHTER AND NUMEROUS SMALL CRAFT.	3732N 12124E	0381	[REDACTED]	80
25X1	[REDACTED]		25X1		
25X1	LU-SHUN (PORT ARTHUR) COMPLEX COMPLEX, APPROXIMATELY 20 SQ MI IN AREA, CONTAINS NUMEROUS MILITARY INSTALLATIONS INCLUDING NAVAL BASE, SUBMARINE BASE, BARRACKS AREAS, MILITARY SCHOOL, COMMUNICATION SITES, STORAGE AREAS, AND NUMEROUS COASTAL DEFENSE EMPLACEMENTS AND AAA SITES.	3848N 12116E	0381	[REDACTED]	53
25X1	[REDACTED]		25X1		
25X1	TA-LIEN (DAIREN) COMPLEX NO APPARENT CHANGE SINCE [REDACTED]	3855N 12137E	0381	[REDACTED]	18
25X1	[REDACTED] OBSERVED IN CLOUD-FREE AREAS.	25X1	25X1		
25X1	[REDACTED]				
25X1	CHIN-HSIEN (CHIN-CHOU) COMPLEX NO APPARENT CHANGE SINCE [REDACTED]	3906N 12143E	0381	[REDACTED]	10
		25X1			

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			BE	NPIC
[REDACTED] OBSERVED IN CLOUD-FREE AREAS. [REDACTED] FU-HSIEN COMPLEX NO APPARENT CHANGE SINCE [REDACTED] [REDACTED] <u>MISCELLANEOUS</u> [REDACTED] [REDACTED]	3937N 12200E	0381	25X1	21-A
			[REDACTED]	
			25X1	
			25X1	
[REDACTED] [REDACTED]			25X1	

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NIEN-TZU-SHAN COMPLEX	33
PEN-CHI COMPLEX	34
SHEN-YANG (MUKDEN) COMPLEX	34
SU-CHIA-TUN COMPLEX	34
TA-LIEN (DAIREN) COMPLEX	36
TAO-AN COMPLEX	33
TUNG-HUA COMPLEX	35
YA-KO-SHIH COMPLEX	31
YEN-TAI (CHEFOO) COMPLEX	36
YING-KOU COMPLEX	33

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APPENDIX

EXPLANATION OF COLUMN HEADINGS, PHOTO REFERENCE DATA, AND CONDITIONS AFFECTING PHOTOGRAPHY

COLUMN HEADINGS

City, Installation-- This column contains the name of the city or town nearest the installation, followed by the name of the installation. If the name of the installation is not known, it is titled according to its function. Where appropriate, the city and installation names are followed by a capsule description.

Coordinates-- Coordinates are referenced to the SW corner of the minute square. When the subject installation covers a wide area, coordinates are given for the approximate center of the installation.

WAC-- This column provides the World Aeronautical Chart number for the area in which the subject installation is situated.

Installation Numbers-- This column is divided into two subcolumns. The first subcolumn lists, when known, the BE installation number assigned to the target. The second subcolumn lists the installation number assigned by NPIC. Installation numbers, when used to reference an item, should be prefixed by the appropriate WAC number, since installation numbers are repeated from WAC to WAC. For example, there is an NPIC target number 0283-1 and an NPIC target number 0284-1. In each instance, the NPIC installation number is one, but the installations appear on different WAC charts.

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PHOTO REFERENCE DATA

The photo reference data indicates the frame(s) on which the target appears.

CONDITIONS AFFECTING PHOTOGRAPHY

Following the photo reference data, symbols indicate conditions which affect the appearance of the installation on the photography. The symbols are: C (clear); SC (scattered clouds); HC (heavy clouds); SC-HC (scattered-to-heavy clouds); H (haze); CS (cloud shadow); D (darkness); SD (semidarkness); O (obliquity); S (snow); and PQ (poor image quality).

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